

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A map data transmitting method, comprising steps of:

setting a specific route;

specifying map data contained in a slicing range which is set along the route having been set and which has a fixed width with a predetermined distance from the route within a predetermined distance from the route having been set based upon map data that include road data and background data;

newly creating a new polygon data if an original polygon data contained in the background data included in the specified map data is partially contained in the slicing range and another portion of the original polygon data is outside the slicing range, by removing polygon data corresponding to the portion outside the slicing range from the original polygon data; and

transmitting by wireless transmission via a mobile communication network a road map specified in correspondence to the map data and background data containing the new polygon data.

2. (original) A map data transmitting method according to claim 1, wherein:

in the transmitting step, either the original polygon data or the new polygon data are transmitted based upon data volumes of the original polygon data and the new polygon data.

3. (original) A map data transmitting method according to claim 2, wherein:

in the transmitting step, either the original polygon data or the new polygon data are transmitted based upon a difference between the data volumes of the original polygon data and the new polygon data.

4. (original) A map data transmitting method according to claim 2, wherein:

in the transmitting step, either the original polygon data or the new polygon data are transmitted based upon an areal ratio of the original polygon data and the new polygon data.

5. (previously presented) A map data transmitting method according to claim 2, wherein;

when the new polygon data are transmitted, information indicating that the new polygon data are transmitted is appended to transmission data being transmitted.

6. (previously presented) A map data transmitting method according to claim 1, wherein:

the route which is set is a recommended route calculated based upon a current point and a destination indicated in a route search request having been transmitted.

7. (previously presented) A map data transmitting apparatus that executes a map data transmitting method according to claim 1.

8. (original) An information terminal comprising:
a reception unit that receives map data transmitted from a map data transmitting apparatus according to claim 7; and
a display unit that displays a map based upon the map data having been received.

9. (original) An information terminal according to claim 8 further comprising:

a requesting unit that issues a request for the new polygon data.

10. (currently amended) An information terminal that receives map data having been transmitted and displays a map, comprising:
a reception unit configured to receive map data by wireless transmission via a mobile communication network which include road data and background

data corresponding to a slicing range which is set along the route having been set and which has a fixed width with a predetermined distance from the route within a predetermined distance from a route having been set;

a creation unit that newly creates a new polygon data, if an original polygon data contained in the background data included in the map data is partially contained in the slicing range and another portion of the original polygon data is outside the slicing range, by removing polygon data corresponding to the portion outside the slicing range from the original polygon data; and

a display unit that displays a map based upon the map data and the new polygon data having been received.

11. (currently amended) A map data transmitting method comprising steps of:

setting a specific route;

extracting road data corresponding to a first slicing range, which is set along the route having been set and which has a fixed width with a specific first distance from the route, within a specific first distance from the route having been set and background data corresponding to a second slicing range, which is set along the route having been set and which has a fixed width with a specific second distance from the route within a specific second distance from the route having been set which is not equal to the first distance, based upon map data that include road data and background data; and

transmitting by wireless transmission via a mobile network the road data and the background data having been extracted.

12. (original) A map data transmitting method according to claim 11, wherein:

in the extracting step, if an original polygon data contained in the extracted background data is partially contained in the second slicing range and another portion of the polygon is outside the second slicing range, polygon data are newly created by removing polygon data corresponding to the portion outside the second slicing range from the original polygon data and background data containing the new polygon data are transmitted.

13. (previously presented) A map data transmitting method according to claim 11, wherein:

the route which is set is a recommended route calculated based upon a current point and a destination indicated in a route search request having been transmitted.

14. (previously presented) A map data transmitting apparatus that executes a map data transmitting method according to claim 11.

15. (original) An information terminal, comprising:

a reception unit that receives map data transmitted from a map data transmitting apparatus according to claim 14; and
a display unit that displays a map based upon the map data having been received.

16. (previously presented) An information terminal according to claim 8, wherein:

the new polygon data are displayed in a display mode which indicates that the polygon data on display are different from the original polygon data.

17. (currently amended) A map data transmitting system, comprising:
a map data transmitting apparatus that executes a map data transmitting method having the steps of:

setting a specific route;
specifying map data contained in a slicing range which is set along the route having been set and which has a fixed width with a predetermined distance from the route within a predetermined distance from the route having been set based upon map data that include road data and background data;
newly creating a new polygon data if an original polygon data contained in the background data included in the specified map data is partially contained in the slicing range and another portion of the original polygon data is outside the slicing range, by removing polygon data corresponding to the portion outside the slicing range from the original polygon data;

transmitting by wireless transmission via a mobile communication network a road map specified in correspondence to the map data and background data containing the new polygon data; and

an information terminal, including:

a reception unit configured to receive map data transmitted from a map data transmitting apparatus by wireless transmission via a mobile communication network; and

a display unit that displays a map based upon the map data having been received.

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26. (previously presented) A map data transmitting apparatus that executes a map data transmitting method according to claim 4.

27. (previously presented) A map data transmitting apparatus that executes a map data transmitting method according to claim 5.

28. (previously presented) A map data transmitting apparatus that executes a map data transmitting method according to claim 6.

29. (previously presented) A map data transmitting method according to claim 12, wherein:

the route which is set is a recommended route calculated based upon a current point and a destination indicated in a route search request having been transmitted.

30. (previously presented) A map data transmitting apparatus that executes a map data transmitting method according to claim 12.

31. (previously presented) A map data transmitting apparatus that executes a map data transmitting method according to claim 13.

32. (previously presented) An information terminal according to claim 9, wherein:

the new polygon data are displayed in a display mode which indicates that the polygon data on display are different from the original polygon data.

33. (previously presented) An information terminal according to claim 10, wherein:

the new polygon data are displayed in a display mode which indicates that the polygon data on display are different from the original polygon data.

34. (previously presented) An information terminal according to claim 15, wherein:

the new polygon data are displayed in a display mode which indicates that the polygon data on display are different from the original polygon data.

35. (previously presented) A map data transmitting method according to claim 1, wherein:

the new polygon data is created by newly creating nodes conforming to a contour of a boundary of the slicing range and by connecting the nodes.

36. (previously presented) An information terminal according to claim 10, wherein:

the creation unit creates the new polygon data by newly creating nodes conforming to a contour of a boundary of the slicing range and by connecting the nodes.

37. (previously presented) A map data transmitting method according to claim according to claim 12, wherein:

the polygon data is newly created by newly creating nodes conforming to a contour of a boundary of the slicing range and by connecting the nodes.

38. (previously presented) A map data transmitting system according to claim 17, wherein:

the new polygon data is created by newly creating nodes conforming to a contour of a boundary of the slicing range and by connecting the nodes.

39. (previously presented) A map data transmitting method according to claim 1, wherein:

the new polygon data corresponds to a new polygon created by changing a shape of an original polygon represented by the original polygon data.

40. (previously presented) An information terminal according to claim 10, wherein:

the new polygon data corresponds to a new polygon created by changing a shape of an original polygon represented by the original polygon data.

41. (previously presented) A map data transmitting method according to claim 12, wherein

the new polygon data corresponds to a new polygon created by changing a shape of an original polygon represented by the original polygon data.

42. (previously presented) A map data transmitting system according to claim 17, wherein:

the new polygon data corresponds to a new polygon created by changing a shape of an original polygon represented by the original polygon data.